



2424598_1.TXT
SEQUENCE LISTING

<110> NEC CORPORATION
MIYAKAWA, Tomoya
NAKAZATO, Takeru
ASOGAWA, Minoru

<120> Sequence Display Method and Homogeny Search Method

<130> Q78853

<140> JP 2002-358407

<141> 2002-12-10

<150> US 10/728,979

<151> 2003-12-08

<160> 93

<170> PatentIn version 3.1

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Ala	Gly	Pro	Phe	Pro	Gly	Ser	Gln	Thr	Ser	Asp	Thr	Leu	Pro	Glu	Val	
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tcg	gcc	ata	cct	atc	tcc	ctg	gac	ggg	cta	ctc	ttc	cct	cgg	ccc	tgc	192
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Arg	Gln	Leu	Leu	Leu	Pro	Ala	Ser	Glu	Ser	Pro	His	Trp	Ser	Gly	Ala	
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Arg	Gln	Leu	Leu	Glu	Asp	Glu	Ser	Tyr	Asp	Gly	Gly	Ala	Gly	Ala	Ala	
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Ser	Ala	Phe	Ala	Pro	Pro	Arg	Thr	Ser	Pro	Cys	Ala	Ser	Ser	Thr	Pro	
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Ala Gly Pro Phe Pro Gly Ser Gln Thr Ser Asp Thr Leu Pro Glu Val
35 40 45

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Ser Ala Ile Pro Ile Ser Leu Asp Gly Leu Leu Phe Pro Arg Pro Cys
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Gln Gly Gln Asp Pro Ser Asp Glu Lys Thr Gln Asp Gln Gln Ser Leu
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Ser Asp Val Glu Gly Ala Tyr Ser Arg Ala Glu Ala Thr Arg Gly Ala
85 90 95

Gly Gly Ser Ser Ser Ser Pro Pro Glu Lys Asp Ser Gly Leu Leu Asp
100 105 110

Ser Val Leu Asp Thr Leu Leu Ala Pro Ser Gly Pro Gly Gln Ser Gln
115 120 125

Pro Ser Pro Pro Ala Cys Glu Val Thr Ser Ser Trp Cys Leu Phe Gly
130 135 140

Pro Glu Leu Pro Glu Asp Pro Pro Ala Ala Pro Ala Thr Gln Arg Val
145 150 155 160

Leu Ser Pro Leu Met Ser Arg Ser Gly Cys Lys Val Gly Asp Ser Ser
165 170 175

Gly Thr Ala Ala Ala His Lys Val Leu Pro Arg Gly Leu Ser Pro Ala
180 185 190

Arg Gln Leu Leu Leu Pro Ala Ser Glu Ser Pro His Trp Ser Gly Ala
195 200 205

Pro Val Lys Pro Ser Pro Gln Ala Ala Ala Val Glu Val Glu Glu Glu
210 215 220

Asp Ser Ser Glu Ser Glu Glu Ser Ala Gly Pro Leu Leu Lys Gly Lys
225 230 235 240

Pro Arg Ala Leu Gly Gly Ala Ala Ala Gly Gly Gly Ala Ala Ala Cys
245 250 255

Pro Pro Gly Ala Ala Ala Gly Gly Val Ala Leu Val Pro Lys Glu Asp
260 265 270

Ser Arg Phe Ser Ala Pro Arg Val Ala Leu Val Glu Gln Asp Ala Pro
275 280 285

Met Ala Pro Gly Arg Ser Pro Leu Ala Thr Thr Val Met Asp Phe Ile
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His Val Pro Ile Leu Pro Leu Asn His Ala Leu Leu Ala Ala Arg Thr
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Arg Gln Leu Leu Glu Asp Glu Ser Tyr Asp Gly Gly Ala Gly Ala Ala
325 330 335

Ser Ala Phe Ala Pro Pro Arg Thr Ser Pro Cys Ala Ser Ser Thr Pro
340 345 350

Val Ala Val Gly Asp Phe Pro Asp Cys Ala Tyr Pro Pro Asp Ala Glu
355 360 365

Pro Lys Asp Asp Ala Tyr Pro Leu Tyr Ser Asp Phe Gln Pro Pro Ala
370 375 380

Leu Lys Ile Lys Glu Glu Glu Glu Gly Ala Glu Ala Ser Ala Arg Ser
385 390 400

Pro Arg Ser Tyr Leu Val Ala Gly Ala Asn Pro Ala Ala Phe Pro Asp
405 410 415

Phe Pro Leu Gly Pro Pro Pro Pro Leu Pro Pro Arg Ala Thr Pro Ser
420 425 430

Arg Pro Gly Glu Ala Ala Val Thr Ala Ala Pro Ala Ser Ala Ser Val
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Ser Ser Ala Ser Ser Ser Gly Ser Thr Leu Glu Cys Ile Leu Tyr Lys
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Ala Glu Gly Ala Pro Pro Gln Gln Gly Pro Phe Ala Pro Pro Pro Cys
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Lys Ala Pro Gly Ala Ser Gly Cys Leu Leu Pro Arg Asp Gly Leu Pro
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Ala Gly Pro Phe Pro Gly Ser Gln Thr Ser Asp Thr Leu Pro Glu Val
 35 40 45

Ser Ala Ile Pro Ile Ser Leu Asp Gly Leu Leu Phe Pro Arg Pro Cys
 50 55 60

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Gln Gly Gln Asp Pro Ser Asp Glu Lys Thr Gln Asp Gln Gln Ser Leu
65 70 75 80

Ser Asp Val Glu Gly Ala Tyr Ser Arg Ala Glu Ala Thr Arg Gly Ala
85 90 95

Gly Gly Ser Ser Ser Ser Pro Pro Glu Lys Asp Ser Gly Leu Leu Asp
100 105 110

Ser Val Leu Asp Thr Leu Leu Ala Pro Ser Gly Pro Gly Gln Ser Gln
115 120 125

Pro Ser Pro Pro Ala Cys Glu Val Thr Ser Ser Trp Cys Leu Phe Gly
130 135 140

Pro Glu Leu Pro Glu Asp Pro Pro Ala Ala Pro Ala Thr Gln Arg Val
145 150 155 160

Leu Ser Pro Leu Met Ser Arg Ser Gly Cys Lys Val Gly Asp Ser Ser
165 170 175

Gly Thr Ala Ala Ala His Lys Val Leu Pro Arg Gly Leu Ser Pro Ala
180 185 190

Arg Gln Leu Leu Leu Pro Ala Ser Glu Ser Pro His Trp Ser Gly Ala
195 200 205

Pro Val Lys Pro Ser Pro Gln Ala Ala Ala Val Glu Val Glu Glu Glu
210 215 220

Asp Ser Ser Glu Ser Glu Glu Ser Ala Gly Pro Leu Leu Lys Gly Lys
225 230 235 240

Pro Arg Ala Leu Gly Gly Ala Ala Ala Gly Gly Gly Ala Ala Ala Cys
245 250 255

Pro Pro Gly Ala Ala Ala Gly Gly Val Ala Leu Val Pro Lys Glu Asp
260 265 270

Ser Arg Phe Ser Ala Pro Arg Val Ala Leu Val Glu Gln Asp Ala Pro
275 280 285

Met Ala Pro Gly Arg Ser Pro Leu Ala Thr Thr Val Met Asp Phe Ile
290 295 300

His Val Pro Ile Leu Pro Leu Asn His Ala Leu Leu Ala Ala Arg Thr
305 310 315 320

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Arg Gln Leu Leu Glu Asp Glu Ser Tyr Asp Gly Gly Ala Gly Ala Ala
325 330 335

Ser Ala Phe Ala Pro Pro Arg Thr Ser Pro Cys Ala Ser Ser Thr Pro
340 345 350

Val Ala Val Gly Asp Phe Pro Asp Cys Ala Tyr Pro Pro Asp Ala Glu
355 360 365

Pro Lys Asp Asp Ala Tyr Pro Leu Tyr Ser Asp Phe Gln Pro Pro Ala
370 375 380

Leu Lys Ile Lys Glu Glu Glu Gly Ala Glu Ala Ser Ala Arg Ser
385 390 400

Pro Arg Ser Tyr Leu Val Ala Gly Ala Asn Pro Ala Ala Phe Pro Asp
405 410 415

Phe Pro Leu Gly Pro Pro Pro Pro Leu Pro Pro Arg Ala Thr Pro Ser
420 425 430

Arg Pro Gly Glu Ala Ala Val Thr Ala Ala Pro Ala Ser Ala Ser Val
435 440 445

Ser Ser Ala Ser Ser Ser Gly Ser Thr Leu Glu Cys Ile Leu Tyr Lys
450 455 460

Ala Glu Gly Ala Pro Pro Gln Gln Gly Pro Phe Ala Pro Pro Pro Cys
465 470 475 480

Lys Ala Pro Gly Ala Ser Gly Cys Leu Leu Pro Arg Asp Gly Leu Pro
485 490 495

Ser Thr Ser Ala Ser Ala Ala Ala Ala Gly Ala Ala Pro Ala Leu Tyr
500 505 510

Pro Ala Leu Gly Leu Asn Gly Leu Pro Gln Leu Gly Tyr Gln Ala Ala
515 520 525

Val Leu Lys Glu Gly Leu Pro Gln Val Tyr Pro Pro Tyr Leu Asn Tyr
530 535 540

Leu Arg Pro Asp Ser Glu Ala Ser Gln Ser Pro Gln Tyr Ser Phe Glu
545 550 555 560

Ser Leu Pro Gln Lys Ile Cys Leu Ile Cys Gly Asp Glu Ala Ser Gly
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Cys His Tyr Gly Val Leu Thr Cys Gly Ser Cys Lys Val Phe Phe Lys
580 585 590

Arg Ala Met Glu Gly Gln His Asn Tyr Leu Cys Ala Gly Arg Asn Asp
595 600 605

Cys Ile Val Asp Lys Ile Arg Arg Lys Asn Cys Pro Ala Cys Arg Leu
610 615 620

Arg Lys Cys Cys Gln Ala Gly Met Val Leu Gly Gly Arg Lys Phe Lys
625 630 635 640

Lys Phe Asn Lys Val Arg Val Val Arg Ala Leu Asp Ala Val Ala Leu
645 650 655

Pro Gln Pro Leu Gly Val Pro Asn Glu Ser Gln Ala Leu Ser Gln Arg
660 665 670

Phe Thr Phe Ser Pro Gly Gln Asp Ile Gln Leu Ile Pro Pro Leu Ile
675 680 685

Asn Leu Leu Met Ser Ile Glu Pro Asp Val Ile Tyr Ala Gly His Asp
690 695 700

Asn Thr Lys Pro Asp Thr Ser Ser Ser Leu Leu Thr Ser Leu Asn Gln
705 710 715 720

Leu Gly Glu Arg Gln Leu Leu Ser Val Val Lys Trp Ser Lys Ser Leu
725 730 735

Pro Gly Phe Arg Asn Leu His Ile Asp Asp Gln Ile Thr Leu Ile Gln
740 745 750

Tyr Ser Trp Met Ser Leu Met Val Phe Gly Leu Gly Trp Arg Ser Tyr
755 760 765

Lys His Val Ser Gly Gln Met Leu Tyr Phe Ala Pro Asp Leu Ile Leu
770 775 780

Asn Glu Gln Arg Met Lys Glu Ser Ser Phe Tyr Ser Leu Cys Leu Thr
785 790 795 800

Met Trp Gln Ile Pro Gln Glu Phe Val Lys Leu Gln Val Ser Gln Glu
805 810 815

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Glu Phe Leu Cys Met Lys Val Leu Leu Leu Leu Asn Thr Ile Pro Leu
820 825 830

Glu Gly Leu Arg Ser Gln Thr Gln Phe Glu Glu Met Arg Ser Ser Tyr
835 840 845

Ile Arg Glu Leu Ile Lys Ala Ile Gly Leu Arg Gln Lys Gly Val Val
850 855 860

Ser Ser Ser Gln Arg Phe Tyr Gln Leu Thr Lys Leu Leu Asp Asn Leu
865 870 875 880

His Asp Leu Val Lys Gln Leu His Leu Tyr Cys Leu Asn Thr Phe Ile
885 890 895

Gln Ser Arg Ala Leu Ser Val Glu Phe Pro Glu Met Met Ser Glu Val
900 905 910

Ile Ala Ala Gln Leu Pro Lys Ile Leu Ala Gly Met Val Lys Pro Leu
915 920 925

Leu Phe His Lys Lys
930

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<223> Query 1-60 Polypeptide
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Met Thr Glu Leu Lys Ala Lys Gly Pro Arg Ala Pro His Val Ala Gly
1 5 10 15

Gly Pro Pro Ser Pro Glu Val Gly Ser Pro Leu Leu Cys Arg Pro Ala
20 25 30

Ala Gly Pro Phe Pro Gly Ser Gln Thr Ser Asp Thr Leu Pro Glu Val
35 40 45

Ser Ala Ile Pro Ile Ser Leu Asp Gly Leu Leu Phe
50 55 60

<210> 45
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<220>

<223> gi|35652|emb|CAA36018.1| Polypeptide

<400> 45

Met Thr Glu Leu Lys Ala Lys Gly Pro Arg Ala Pro His Val Ala Gly
1 5 10 15

Gly Pro Pro Ser Pro Glu Val Gly Ser Pro Leu Leu Cys Arg Pro Ala
20 25 30

Ala Gly Pro Phe Pro Gly Ser Gln Thr Ser Asp Thr Leu Pro Glu Val
35 40 45

Ser Ala Ile Pro Ile Ser Leu Asp Gly Leu Leu Phe
50 55 60

<210> 46

<211> 60

<212> PRT

<213> Unknown Sequence

<220>

<223> gi|625331|pir||QRHUP Polypeptide

<400> 46

Met Thr Glu Leu Lys Ala Lys Gly Pro Arg Ala Pro His Val Ala Gly
1 5 10 15

Gly Pro Pro Ser Pro Glu Val Gly Ser Pro Leu Leu Cys Arg Pro Ala
20 25 30

Ala Gly Pro Phe Pro Gly Ser Gln Thr Ser Asp Thr Leu Pro Glu Val
35 40 45

Ser Ala Ile Pro Ile Ser Leu Asp Gly Leu Leu Phe
50 55 60

<210> 47

<211> 60

<212> PRT

<213> Unknown Sequence

<220>

<223> gi|12644100|sp|P06401|PRGR Polypeptide

<400> 47

Met Thr Glu Leu Lys Ala Lys Gly Pro Arg Ala Pro His Val Ala Gly
1 5 10 15

Gly Pro Pro Ser Pro Glu Val Gly Ser Pro Leu Leu Cys Arg Pro Ala
20 25 30

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Ala Gly Pro Phe Pro Gly Ser Gln Thr Ser Asp Thr Leu Pro Glu Val
35 40 45

Ser Ala Ile Pro Ile Ser Leu Asp Gly Leu Leu Phe
50 55 60

<210> 48
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<212> PRT
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<220>
<223> gi|4505767|ref|NP Polypeptide

<400> 48

Met Thr Glu Leu Lys Ala Lys Gly Pro Arg Ala Pro His Val Ala Gly
1 5 10 15

Gly Pro Pro Ser Pro Glu Val Gly Ser Pro Leu Leu Cys Arg Pro Ala
20 25 30

Ala Gly Pro Phe Pro Gly Ser Gln Thr Ser Asp Thr Leu Pro Glu Val
35 40 45

Ser Ala Ile Pro Ile Ser Leu Asp Gly Leu Leu Phe
50 55 60

<210> 49
<211> 60
<212> PRT
<213> Unknown Sequence

<220>
<223> gi|22759952|dbj|BAC11013.1| Polypeptide

<400> 49

Met Thr Glu Leu Lys Ala Lys Gly Pro Arg Ala Pro His Val Ala Gly
1 5 10 15

Gly Pro Pro Ser Pro Glu Val Gly Ser Pro Leu Leu Cys Arg Pro Ala
20 25 30

Ala Gly Pro Phe Pro Gly Ser Gln Thr Ser Asp Thr Leu Pro Glu Val
35 40 45

Ser Ala Ile Pro Ile Ser Leu Asp Gly Leu Leu Phe
50 55 60

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<400> 50

Met Thr Glu Leu Lys Ala Lys Gly Pro Arg Ala Pro His Val Ala Gly
1 5 10 15

Gly Pro Pro Ser Pro Glu Val Gly Ser Pro Leu Leu Cys Arg Pro Ala
20 25 30

Ala Gly Pro Phe Pro Gly Ser Gln Thr Ser Asp Thr Leu Pro Glu Val
35 40 45

Ser Ala Ile Pro Ile Ser Leu Asp Gly Leu Leu Phe
50 55 60

<210> 51
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<212> PRT
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<220>
<223> gi|20278871|dbj|BAB91074.1| Polypeptide

<400> 51

Met Thr Glu Leu Lys Ala Lys Gly Pro Arg Ala Pro His Val Ala Gly
1 5 10 15

Gly Pro Pro Ser Pro Glu Val Gly Ser Pro Leu Leu Cys Arg Pro Ala
20 25 30

Ala Gly Pro Phe Pro Gly Ser Gln Thr Ser Asp Thr Leu Pro Glu Val
35 40 45

Ser Ala Ile Pro Ile Ser Leu Asp Gly Leu Leu Phe
50 55 60

<210> 52
<211> 60
<212> PRT
<213> Unknown Sequence

<220>
<223> gi|22036117|dbj|BAC06585.1| Polypeptide

<400> 52

Met Thr Glu Leu Lys Ala Lys Gly Pro Arg Ala Pro His Val Ala Gly
1 5 10 15

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Gly Pro Pro Ser Pro Glu Val Gly Ser Pro Leu Leu Cys Arg Pro Ala
20 25 30

Ala Gly Pro Phe Pro Gly Ser Gln Thr Ser Asp Thr Leu Pro Glu Val
35 40 45

Ser Ala Ile Pro Ile Ser Leu Asp Gly Leu Leu Phe
50 55 60

<210> 53
<211> 60
<212> PRT
<213> Unknown Sequence

<220>
<223> gi|22759950|dbj|BAC11012.1| Polypeptide

<400> 53

Met Thr Glu Leu Lys Ala Lys Gly Pro Arg Ala Pro His Val Ala Gly
1 5 10 15

Gly Pro Pro Ser Pro Glu Val Gly Ser Pro Leu Leu Cys Arg Pro Ala
20 25 30

Ala Gly Pro Phe Pro Gly Ser Gln Thr Ser Asp Thr Leu Pro Glu Val
35 40 45

Ser Ala Ile Pro Ile Ser Leu Asp Gly Leu Leu Phe
50 55 60

<210> 54
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<212> PRT
<213> Artificial Sequence

<220>
<223> Query 541- 600 Polypeptide

<400> 54

Tyr Leu Asn Tyr Leu Arg Pro Asp Ser Glu Ala Ser Gln Ser Pro Gln
1 5 10 15

Tyr Ser Phe Glu Ser Leu Pro Gln Lys Ile Cys Leu Ile Cys Gly Asp
20 25 30

Glu Ala Ser Gly Cys His Tyr Gly Val Leu Thr Cys Gly Ser Cys Lys
35 40 45

Val Phe Phe Lys Arg Ala Met Glu Gly Gln His Asn
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<212> PRT
<213> Unknown Sequence

<220>
<223> gi|35652|emb|CAA36018.1| Polypeptide
<400> 55

Tyr Leu Asn Tyr Leu Arg Pro Asp Ser Glu Ala Ser Gln Ser Pro Gln
1 5 10 15

Tyr Ser Phe Glu Ser Leu Pro Gln Lys Ile Cys Leu Ile Cys Gly Asp
20 25 30

Glu Ala Ser Gly Cys His Tyr Gly Val Leu Thr Cys Gly Ser Cys Lys
35 40 45

Val Phe Phe Lys Arg Ala Met Glu Gly Gln His Asn
50 55 60

<210> 56
<211> 60
<212> PRT
<213> Unknown Sequence

<220>
<223> gi|625331|pir||QRHUP Polypeptide
<400> 56

Tyr Leu Asn Tyr Leu Arg Pro Asp Ser Glu Ala Ser Gln Ser Pro Gln
1 5 10 15

Tyr Ser Phe Glu Ser Leu Pro Gln Lys Ile Cys Leu Ile Cys Gly Asp
20 25 30

Glu Ala Ser Gly Cys His Tyr Gly Val Leu Thr Cys Gly Ser Cys Lys
35 40 45

Val Phe Phe Lys Arg Ala Met Glu Gly Gln His Asn
50 55 60

<210> 57
<211> 60
<212> PRT
<213> Unknown Sequence

<220>
<223> gi|12644100|sp|P06401|PRGR Polypeptide

2424598_1.TXT

<400> 57

Tyr Leu Asn Tyr Leu Arg Pro Asp Ser Glu Ala Ser Gln Ser Pro Gln
1 5 10 15

Tyr Ser Phe Glu Ser Leu Pro Gln Lys Ile Cys Leu Ile Cys Gly Asp
20 25 30

Glu Ala Ser Gly Cys His Tyr Gly Val Leu Thr Cys Gly Ser Cys Lys
35 40 45

Val Phe Phe Lys Arg Ala Met Glu Gly Gln His Asn
50 55 60

<210> 58

<211> 60

<212> PRT

<213> Unknown Sequence

<220>

<223> gi|4505767|ref|NP Polypeptide

<400> 58

Tyr Leu Asn Tyr Leu Arg Pro Asp Ser Glu Ala Ser Gln Ser Pro Gln
1 5 10 15

Tyr Ser Phe Glu Ser Leu Pro Gln Lys Ile Cys Leu Ile Cys Gly Asp
20 25 30

Glu Ala Ser Gly Cys His Tyr Gly Val Leu Thr Cys Gly Ser Cys Lys
35 40 45

Val Phe Phe Lys Arg Ala Met Glu Gly Gln His Asn
50 55 60

<210> 59

<211> 60

<212> PRT

<213> Unknown Sequence

<220>

<223> gi|22759952|dbj|BAC11013.1| Polypeptide

<400> 59

Tyr Leu Asn Tyr Leu Arg Pro Asp Ser Glu Ala Ser Gln Ser Pro Gln
1 5 10 15

Tyr Ser Phe Glu Ser Leu Pro Gln Lys Ile Cys Leu Ile Cys Gly Asp
20 25 30

Glu Ala Ser Gly Cys His Tyr Gly Val Leu Thr Cys Gly Ser Cys Lys
35 40 45

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Val Phe Phe Lys Arg Ala Met Glu Gly Gln His Asn
50 55 60

<210> 60
<211> 56
<212> PRT
<213> Unknown Sequence

<220>
<223> gi|22759948|dbj|BAC11011.1| Polypeptide

<400> 60

Tyr Leu Asn Tyr Leu Arg Pro Asp Ser Glu Ala Ser Gln Ser Pro Gln
1 5 10 15

Tyr Ser Phe Glu Ser Leu Pro Gln Lys Ile Cys Leu Ile Cys Gly Asp
20 25 30

Glu Ala Ser Gly Cys His Tyr Gly Val Leu Thr Cys Gly Ser Cys Lys
35 40 45

Val Phe Phe Lys Arg Ala Met Glu
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<210> 61
<211> 60
<212> PRT
<213> Unknown Sequence

<220>
<223> gi|20278871|dbj|BAB91074.1| Polypeptide

<400> 61

Tyr Leu Asn Tyr Leu Arg Pro Asp Ser Glu Ala Ser Gln Ser Pro Gln
1 5 10 15

Tyr Ser Phe Glu Ser Leu Pro Gln Lys Ile Cys Leu Ile Cys Gly Asp
20 25 30

Glu Ala Ser Gly Cys His Tyr Gly Val Leu Thr Cys Gly Ser Cys Lys
35 40 45

Val Phe Phe Lys Arg Ala Met Glu Gly Gln His Asn
50 55 60

<210> 62
<211> 60
<212> PRT
<213> Unknown Sequence

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<220>

<223> gi|22036117|dbj|BAC06585.1| Polypeptide

<400> 62

Tyr Leu Asn Tyr Leu Arg Pro Asp Ser Glu Ala Ser Gln Ser Pro Gln
1 5 10 15

Tyr Ser Phe Glu Ser Leu Pro Gln Lys Ile Cys Leu Ile Cys Gly Asp
20 25 30

Glu Ala Ser Gly Cys His Tyr Gly Val Leu Thr Cys Gly Ser Cys Lys
35 40 45

Val Phe Phe Lys Arg Ala Met Glu Gly Gln His Asn
50 55 60

<210> 63

<211> 60

<212> PRT

<213> Unknown Sequence

<220>

<223> gi|22759950|dbj|BAC11012.1| Polypeptide

<400> 63

Tyr Leu Asn Tyr Leu Arg Pro Asp Ser Glu Ala Ser Gln Ser Pro Gln
1 5 10 15

Tyr Ser Phe Glu Ser Leu Pro Gln Lys Ile Cys Leu Ile Cys Gly Asp
20 25 30

Glu Ala Ser Gly Cys His Tyr Gly Val Leu Thr Cys Gly Ser Cys Lys
35 40 45

Val Phe Phe Lys Arg Ala Met Glu Gly Gln His Asn
50 55 60

<210> 64

<211> 60

<212> PRT

<213> Unknown Sequence

<220>

<223> gi|3342402|gb|AAC63513.1| Polypeptide

<400> 64

Val Leu Glu Tyr Ile Pro Glu Asn Val Ser Ser Ser Thr Leu Arg Ser
1 5 10 15

Val Ser Thr Ser Ser Arg Pro Ser Lys Ile Cys Leu Val Cys Gly Asp
Page 25

20

25

30

Glu Ala Ser Gly Cys His Tyr Gly Val Val Thr Cys Gly Ser Cys Lys
 35 40 45

Val Phe Phe Lys Arg Ala Val Glu Gly Gln His Asn
 50 55 60

<210> 65
 <211> 38
 <212> PRT
 <213> Unknown Sequence

<220>
 <223> gi|178892|gb|AAA51774.1| Polypeptide

<400> 65

Pro Gln Lys Thr Cys Leu Ile Cys Gly Asp Lys Ala Ser Gly Cys His
 1 5 10 15

Tyr Gly Ala Leu Thr Cys Gly Ser Cys Lys Val Phe Phe Lys Arg Ala
 20 25 30

Ala Glu Gly Lys Gln Lys
 35

<210> 66
 <211> 56
 <212> PRT
 <213> Unknown Sequence

<220>
 <223> gi|4504133|ref|NP Polypeptide

<400> 66

Met Arg Pro Asp Val Ser Ser Pro Pro Ser Ser Ser Ser Thr Ala Thr
 1 5 10 15

Thr Pro Pro Pro Lys Leu Cys Leu Val Cys Ser Asp Glu Ala Ser Gly
 20 25 30

Cys His Tyr Gly Val Leu Thr Cys Gly Ser Cys Lys Val Phe Phe Lys
 35 40 45

Arg Ala Val Glu Gly Gln His Asn
 50 55

<210> 67
 <211> 56
 <212> PRT
 <213> Unknown Sequence

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<220>

<223> gi|458657|gb|AAA16603.1| Polypeptide

<400> 67

Met Arg Pro Asp Val Ser Ser Pro Pro Ser Ser Ser Ser Thr Ala Thr
1 5 10 15

Thr Pro Pro Pro Lys Leu Cys Leu Val Cys Ser Asp Glu Ala Ser Gly
20 25 30

Cys His Tyr Gly Val Leu Thr Cys Gly Ser Cys Lys Val Phe Phe Lys
35 40 45

Arg Ala Val Glu Gly Gln His Asn
50 55

<210> 68

<211> 38

<212> PRT

<213> Unknown Sequence

<220>

<223> gi|460281|gb|AAA51770.1| Polypeptide

<400> 68

Pro Gln Lys Thr Cys Leu Ile Cys Gly Asp Glu Ala Ser Gly Cys His
1 5 10 15

Tyr Gly Ala Leu Thr Cys Gly Ser Cys Lys Val Phe Phe Lys Arg Ala
20 25 30

Ala Glu Gly Lys Gln Lys
35

<210> 69

<211> 60

<212> PRT

<213> Unknown Sequence

<220>

<223> gi|4505199|ref|NP Polypeptide

<400> 69

Val Leu Glu Tyr Ile Pro Glu Asn Val Ser Ser Ser Thr Leu Arg Ser
1 5 10 15

Val Ser Thr Ser Ser Arg Pro Ser Lys Ile Cys Leu Val Cys Gly Asp
20 25 30

Glu Ala Ser Gly Cys His Tyr Gly Val Val Thr Cys Gly Ser Cys Lys
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35

40

45

Val Phe Phe Lys Arg Ala Val Glu Gly Gln His Asn
50 55 60

<210> 70
<211> 56
<212> PRT
<213> Unknown Sequence

<220>
<223> gi|72117|pir||QRHUGB Polypeptide

<400> 70

Met Arg Pro Asp Val Ser Ser Pro Pro Ser Ser Ser Ser Thr Ala Thr
1 5 10 15

Thr Pro Pro Pro Lys Leu Cys Leu Val Cys Ser Asp Glu Ala Ser Gly
20 25 30

Cys His Tyr Gly Val Leu Thr Cys Gly Ser Cys Lys Val Phe Phe Lys
35 40 45

Arg Ala Val Glu Gly Gln His Asn
50 55

<210> 71
<211> 60
<212> PRT
<213> Artificial Sequence

<220>
<223> Query 601-660 Polypeptide

<400> 71

Tyr Leu Cys Ala Gly Arg Asn Asp Cys Ile Val Asp Lys Ile Arg Arg
1 5 10 15

Lys Asn Cys Pro Ala Cys Arg Leu Arg Lys Cys Cys Gln Ala Gly Met
20 25 30

Val Leu Gly Gly Arg Lys Phe Lys Lys Phe Asn Lys Val Arg Val Val
35 40 45

Arg Ala Leu Asp Ala Val Ala Leu Pro Gln Pro Leu
50 55 60

<210> 72
<211> 60
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<220>

<223> gi|35652|emb|CAA36018.1| Polypeptide

<400> 72

Tyr Leu Cys Ala Gly Arg Asn Asp Cys Ile Val Asp Lys Ile Arg Arg
1 5 10 15

Lys Asn Cys Pro Ala Cys Arg Leu Arg Lys Cys Cys Gln Ala Gly Met
20 25 30

Val Leu Gly Gly Arg Lys Phe Lys Lys Phe Asn Lys Val Arg Val Val
35 40 45

Arg Ala Leu Asp Ala Val Ala Leu Pro Gln Pro Leu
50 55 60

<210> 73

<211> 60

<212> PRT

<213> Unknown Sequence

<220>

<223> gi|625331|pir||QRHUP Polypeptide

<400> 73

Tyr Leu Cys Ala Gly Arg Asn Asp Cys Ile Val Asp Lys Ile Arg Arg
1 5 10 15

Lys Asn Cys Pro Ala Cys Arg Leu Arg Lys Cys Cys Gln Ala Gly Met
20 25 30

Val Leu Gly Gly Arg Lys Phe Lys Lys Phe Asn Lys Val Arg Val Val
35 40 45

Arg Ala Leu Asp Ala Val Ala Leu Pro Gln Pro Leu
50 55 60

<210> 74

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<220>

<223> gi|12644100|sp|P06401|PRGR Polypeptide

<400> 74

Tyr Leu Cys Ala Gly Arg Asn Asp Cys Ile Val Asp Lys Ile Arg Arg
1 5 10 15

Lys Asn Cys Pro Ala Cys Arg Leu Arg Lys Cys Cys Gln Ala Gly Met
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2 4) 3

20 25 2424598_1.TXT 30

Val Leu Gly Gly Arg Lys Phe Lys Lys Phe Asn Lys Val Arg Val Val
35 40 45

Arg Ala Leu Asp Ala Val Ala Leu Pro Gln Pro Leu
50 55 60

<210> 75
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<212> PRT
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<220>
<223> gi|4505767|ref|NP Polypeptide
<400> 75

Tyr Leu Cys Ala Gly Arg Asn Asp Cys Ile Val Asp Lys Ile Arg Arg
1 5 10 15

Lys Asn Cys Pro Ala Cys Arg Leu Arg Lys Cys Cys Gln Ala Gly Met
20 25 30

Val Leu Gly Gly Arg Lys Phe Lys Lys Phe Asn Lys Val Arg Val Val
35 40 45

Arg Ala Leu Asp Ala Val Ala Leu Pro Gln Pro Val
50 55 60

<210> 76
<211> 60
<212> PRT
<213> Unknown Sequence

<220>
<223> gi|22759952|dbj|BAC11013.1| Polypeptide
<400> 76

Tyr Leu Cys Ala Gly Arg Asn Asp Cys Ile Val Asp Lys Ile Arg Arg
1 5 10 15

Lys Asn Cys Pro Ala Cys Arg Leu Arg Lys Cys Cys Gln Ala Gly Met
20 25 30

Val Leu Gly Gly Arg Lys Phe Lys Lys Phe Asn Lys Val Arg Val Val
35 40 45

Arg Ala Leu Asp Ala Val Ala Leu Pro Gln Pro Val
50 55 60

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<210> 77
 <211> 25
 <212> PRT
 <213> Unknown Sequence

<220>
 <223> gi|22759948|dbj|BAC11011.1| Polypeptide

<400> 77

Gly Arg Lys Phe Lys Lys Phe Asn Lys Val Arg Val Val Arg Ala Leu
 1 5 10 15

Asp Ala Val Ala Leu Pro Gln Pro Val
 20 25

<210> 78
 <211> 36
 <212> PRT
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<220>
 <223> gi|20278871|dbj|BAB91074.1| Polypeptide

<400> 78

Tyr Leu Cys Ala Gly Arg Asn Asp Cys Ile Val Asp Lys Ile Arg Arg
 1 5 10 15

Lys Asn Cys Pro Ala Cys Arg Leu Arg Lys Cys Cys Gln Ala Gly Met
 20 25 30

Val Leu Gly Gly
 35

<210> 79
 <211> 36
 <212> PRT
 <213> Unknown Sequence

<220>
 <223> gi|22036117|dbj|BAC06585.1| Polypeptide

<400> 79

Tyr Leu Cys Ala Gly Arg Asn Asp Cys Ile Val Asp Lys Ile Arg Arg
 1 5 10 15

Lys Asn Cys Pro Ala Cys Arg Leu Arg Lys Cys Cys Gln Ala Gly Met
 20 25 30

Val Leu Gly Gly
 35

<210> 80

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<211> 36
 <212> PRT
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<220>
 <223> gi|22759950|dbj|BAC11012.1| Polypeptide

<400> 80

Tyr Leu Cys Ala Gly Arg Asn Asp Cys Ile Val Asp Lys Ile Arg Arg
 1 5 10 15

Lys Asn Cys Pro Ala Cys Arg Leu Arg Lys Cys Cys Gln Ala Gly Met
 20 25 30

Val Leu Gly Gly
 35

<210> 81
 <211> 60
 <212> PRT
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<220>
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<400> 81

Tyr Leu Cys Ala Gly Arg Asn Asp Cys Ile Ile Asp Lys Ile Arg Arg
 1 5 10 15

Lys Asn Cys Pro Ala Cys Arg Leu Gln Lys Cys Leu Gln Ala Gly Met
 20 25 30

Asn Leu Gly Ala Arg Lys Ser Lys Lys Leu Gly Lys Leu Lys Gly Ile
 35 40 45

His Pro Glu Glu Gly Thr Thr Tyr Ile Ala Pro Ala
 50 55 60

<210> 82
 <211> 54
 <212> PRT
 <213> Unknown Sequence

<220>
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<400> 82

Tyr Leu Cys Ala Ser Arg Asn Asp Cys Thr Ile Asp Lys Phe Arg Arg
 1 5 10 15

Lys Asn Cys Pro Ser Cys Arg Leu Arg Lys Cys Tyr Glu Ala Gly Met
 20 25 30

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Thr Leu Gly Ala Arg Lys Leu Lys Lys Leu Gly Asn Leu Lys Leu Gln
 35 40 45

Glu Glu Gly Glu Ala Ser
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<210> 83
 <211> 51
 <212> PRT
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<220>
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<400> 83

Tyr Leu Cys Ala Gly Arg Asn Asp Cys Ile Ile Asp Lys Ile Arg Arg
 1 5 10 15

Lys Asn Cys Pro Ala Cys Arg Tyr Arg Lys Cys Leu Gln Ala Gly Met
 20 25 30

Asn Leu Glu Ala Arg Lys Thr Lys Lys Lys Ile Lys Gly Ile Gln Gln
 35 40 45

Ala Thr Thr
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<210> 84
 <211> 51
 <212> PRT
 <213> Unknown Sequence

<220>
 <223> gi|458657|gb|AAA16603.1| Polypeptide

<400> 84

Tyr Leu Cys Ala Gly Arg Asn Asp Cys Ile Ile Asp Lys Ile Arg Arg
 1 5 10 15

Lys Asn Cys Pro Ala Cys Arg Tyr Arg Lys Cys Leu Gln Ala Gly Met
 20 25 30

Asn Leu Glu Ala Arg Lys Thr Lys Lys Lys Ile Lys Gly Ile Gln Gln
 35 40 45

Ala Thr Thr
 50

<210> 85

2424598_1.TXT

<211> 54
<212> PRT
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<400> 85

Tyr Leu Cys Ala Ser Arg Asn Asp Cys Thr Ile Asp Lys Phe Arg Arg
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Lys Asn Cys Pro Ser Cys Arg Leu Arg Lys Cys Tyr Glu Ala Gly Met
20 25 30

Thr Leu Gly Ala Arg Lys Leu Lys Lys Leu Gly Asn Leu Lys Leu Gln
35 40 45

Glu Glu Gly Glu Ala Ser
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Tyr Leu Cys Ala Gly Arg Asn Asp Cys Ile Ile Asp Lys Ile Arg Arg
1 5 10 15

Lys Asn Cys Pro Ala Cys Arg Leu Gln Lys Cys Leu Gln Ala Gly Met
20 25 30

Asn Leu Gly Ala Arg Lys Ser Lys Lys Leu Gly Lys Leu Lys Gly Ile
35 40 45

His Pro Glu Glu Gly Thr Thr Tyr Ile Ala Pro Ala
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<223> gi|72117|pir||QRHUGB Polypeptide

<400> 87

Tyr Leu Cys Ala Gly Arg Asn Asp Cys Ile Ile Asp Lys Ile Arg Arg
1 5 10 15

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Lys Asn Cys Pro Ala Cys Arg Tyr Arg Lys Cys Leu Gln Ala Gly Met
20 25 30

Asn Leu Glu Ala Arg Lys Thr Lys Lys Lys Ile Lys Gly Ile Gln Gln
35 40 45

Ala Thr Thr
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<212> DNA
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<210> 91
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<210> 92

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26